

STP, NORCO
R8-2002-0024

MONTHLY eSMR SUMMARY

Expected Requirements:

M-001:

pH	2 / Day	SU
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	1 / Day	lb/day
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	1 / Day	mg/L
Electrical Conductivity @ 25 Deg. C	1 / Day	umhos/cm
Flow	1 / Day	MGD
Total Coliform	1 / Day	MPN/100 mL
Total Suspended Solids (TSS)	1 / Day	lb/day
Total Suspended Solids (TSS)	1 / Day	mg/L
Turbidity	1 / Day	NTU
Temperature	1 / Week	Degrees C
Ammonia, Total (as N)	2 / Month	mg/L
Ammonia, Total (as N)	2 / Month	lb/day
4,4-DDD	1 / Month	ug/L
alpha-Endosulfan	1 / Month	ug/L
Bicarbonate Ion (as HCO ₃)	1 / Month	mg/L
Bis (2-Ethylhexyl) Phthalate	1 / Month	ug/L
BOD ₅ @ 20 Deg. C, Percent Removal	1 / Month	%
Boron, Total Recoverable	1 / Month	lb/day
Boron, Total Recoverable	1 / Month	mg/L
Calcium, Total Recoverable	1 / Month	mg/L
Carbonate Ion (as CO ₃)	1 / Month	mg/L
Chloride	1 / Month	mg/L
Chloride	1 / Month	lb/day
Chronic Toxicity	1 / Month	TUc
Cyanide, Free Available	1 / Month	ug/L
Fluoride, Total	1 / Month	mg/L
Fluoride, Total	1 / Month	lb/day
gamma-BHC	1 / Month	ug/L
Hardness, Total (as CaCO ₃)	1 / Month	mg/L
Hardness, Total (as CaCO ₃)	1 / Month	lb/day
Magnesium, Total Recoverable	1 / Month	mg/L
Nitrate, Total (as N)	1 / Month	mg/L
Nitrogen, Total Inorganic (as N)	1 / Month	mg/L
Nitrogen, Total Inorganic (as N)	1 / Month	lb/day
Selenium, Total Recoverable	1 / Month	ug/L
Selenium, Total Recoverable	1 / Month	lb/day
Sodium, Total Recoverable	1 / Month	mg/L
Sodium, Total Recoverable	1 / Month	lb/day
Sulfate, Total (as SO ₄)	1 / Month	mg/L
Sulfate, Total (as SO ₄)	1 / Month	lb/day

Tetrachloroethylene	1 / Month	ug/L
Total Dissolved Solids (TDS)	1 / Month	mg/L
Total Organic Carbon (TOC)	1 / Month	mg/L
Total Suspended Solids (TSS), Percent Removal	1 / Month	%
M-INF:		
pH	2 / Day	SU
Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C)	1 / Day	mg/L
Electrical Conductivity @ 25 Deg. C	1 / Day	umhos/cm
Flow	1 / Day	MGD
Ammonia, Total (as N)	1 / Month	mg/L
Boron, Total Recoverable	1 / Month	mg/L
Chloride	1 / Month	mg/L
Fluoride, Total	1 / Month	mg/L
Hardness, Total (as CaCO3)	1 / Month	mg/L
Nitrogen, Total Inorganic (as N)	1 / Month	mg/L
Sodium, Total Recoverable	1 / Month	mg/L
Sulfate, Total (as SO4)	1 / Month	mg/L
Total Dissolved Solids (TDS)	1 / Month	mg/L
Total Organic Carbon (TOC)	1 / Month	mg/L
Total Suspended Solids (TSS)	1 / Month	mg/L

R-001D and R-001U:

Temperature	1 / Week	Degrees C
Dissolved Oxygen	1 / Week	mg/L

Using Narratives Tab:

M-001:

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average weekly
Biochemical Oxygen Demand concentration shall not exceed 30 mg/l for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average monthly
Biochemical Oxygen Demand concentration shall not exceed 20 mg/l for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average weekly
Biochemical Oxygen Demand mass emission rate shall not exceed 2,002 lbs/day for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average monthly
Biochemical Oxygen Demand mass emission rate shall not exceed 1,334 lbs/day for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average weekly
Biochemical Oxygen Demand concentration shall not exceed 45 mg/l for effluent with 20:1 dilution (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average monthly Biochemical Oxygen Demand concentration shall not exceed 30 mg/l for effluent with 20:1 dilution (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average weekly Biochemical Oxygen Demand emission rate shall not exceed 3,002 lbs/day for effluent with 20:1 dilution. (Final requirement effective null - null)[All year]

Biochemical Oxygen Demand (BOD) (5-day @ 20 Deg. C): Average monthly Biochemical Oxygen Demand emission rate shall not exceed 2,002 lbs/day for effluent with 20:1 dilution. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average weekly Suspended Solids concentration shall not exceed 30 mg/l for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average monthly Suspended Solids concentration shall not exceed 20 mg/l for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average weekly Suspended Solids mass emission rate shall not exceed 2,002 lbs/day for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

pH: The total time during which the pH values are outside the required range of 6.5 to 8.5 s.u. shall not exceed 7 hours and 26 minutes in any calendar month. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average monthly Suspended Solids mass emission rate shall not exceed 1,334 lbs/day for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

pH: No individual pH excursion from the range of 6.5 to 8.5 s.u. shall exceed 60 minutes, (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average weekly Suspended Solids concentration shall not exceed 45 mg/l for effluent with 20:1 dilution (Final requirement effective null - null)[All year]

Turbidity: Filtered wastewater must meet either (1) or (2): (1) Has been coagulated and passed through bed of filter media such that resulting turbidity does not exceed (i) an average of 2 NTU within a 24-hour period; (ii) 5 NTU more than 5 percent of the time within a 24-hour period; and (iii) 10 NTU at any time. (2) Has been passed through a microfiltration...or RO membrane...such that resulting turbidity does not exceed (a) 0.2

NTU more than 5 percent of the time within a 24-hour period; and (b) 0.5 NTU at any time. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average monthly Suspended Solids concentration shall not exceed 30 mg/l for effluent with 20:1 dilution. (Final requirement effective null - null)[All year]

Total Coliform: The average weekly concentration of total coliform bacteria measured in the disinfected effluent shall not exceed 2.2 MPN/100 ml. The average shall be determined from bacti results of last 7 days. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average weekly Suspended Solids emission rate shall not exceed 3,002 lbs/day for effluent with 20:1 dilution. (Final requirement effective null - null)[All year]

Total Coliform: The number of total coliform organisms shall not exceed 23 MPN/100 ml in more than one sample in any calendar month. (Final requirement effective null - null)[All year]

Total Suspended Solids (TSS): Average monthly Suspended Solids emission rate shall not exceed 2,002 lbs/day for effluent with 20:1 dilution. (Final requirement effective null - null)[All year]

Ammonia Nitrogen, Total (as N): Average monthly Ammonia-Nitrogen concentration shall not exceed 5 mg/l for effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Ammonia Nitrogen, Total (as N): Average monthly Ammonia-Nitrogen emission rate shall not exceed 334 lbs/day effluent without 20:1 dilution. (Final requirement effective null - null)[All year]

Total Dissolved Solids (TDS): The lower of the limits is the limit: (1) The 12-month average TDS concentration shall not exceed 625 mg/l, and the 12-month average TDS mass emission rate shall not exceed 41,700 lbs/day. (2) The 12-month average TDS concentration of the ww shall not exceed the combination of the 12-month average TDS concentration of the water supply plus a 250 mg/l increment. (Final requirement effective null - null)[All year]

Using Pre-Calculated Tab:

M-001:

Boron, Total Recoverable $\leq 0.75^*$ mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average boron concentration shall not exceed 0.75 mg/l.

Boron, Total Recoverable \leq 50.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average boron mass emission rate shall not exceed 50 lbs/day.

Chloride \leq 140.0* mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average chloride concentration shall not exceed 140 mg/l.

Chloride \leq 9341.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average chloride mass emission rate shall not exceed 9,341 lbs/day.

Fluoride, Total \leq 1.0* mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average fluoride concentration shall not exceed 1 mg/l.

Fluoride, Total \leq 67.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average fluoride mass emission rate shall not exceed 67 lbs/day.

Sodium, Total Recoverable \leq 110.0* mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average sodium concentration shall not exceed 110 mg/l.

Sodium, Total Recoverable \leq 7339.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average sodium mass emission rate shall not exceed 7,339 lbs/day.

Sulfate, Total (as SO₄) \leq 150.0* mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average sulfate concentration shall not exceed 150 mg/l.

Sulfate, Total (as SO₄) \leq 10008.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average sulfate mass emission rate shall not exceed 10,008 lbs/day.

Hardness, Total (as CaCO₃) ≤ 350.0* mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average total hardness concentration shall not exceed 350 mg/l.

Hardness, Total (as CaCO₃) ≤ 23352.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average total hardness mass emission rate shall not exceed 23,352 lbs/day.

Inorganic Nitrogen, Total ≤ 10.0* mg/L, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Composite. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average Total Inorganic Nitrogen concentration shall not exceed 10 mg/l.

Inorganic Nitrogen, Total ≤ 667.0* lb/day, Limit Basis: Other, Sampling Frequency: 1 / Month, Sampling Type: Calculate. (final requirement effective since the beginning of this regulatory measure to the end of this regulatory measure) [All Year] The 12-month average Total Inorganic Nitrogen mass emission rate shall not exceed 667 lbs/day.